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Amended Claims With Markings Under 37 CFR §1.121(c)(3)

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2 12. (Amended) A tuner, comprising: Technology Center 2600

3 tuner circuitry to tune to various television frequencies carrying television  
4 video signals;

5 a tuner module coupled to adjust the tuner circuitry to scan multiple  
6 channels within a particular locale for corresponding tuning frequencies, the tuner  
7 module storing the tuning frequencies for the particular locale;

8 [A tuner as recited in claim 11, wherein:]

9 upon transporting the tuner to a new locale, the tuner module scans multiple  
10 channels within the new local for corresponding tuning frequencies; and

11 upon transporting the tuner back to the particular locale, the tuner module  
12 retrieves the stored tuning frequencies to restore operation in the particular locale.

14 32. (Amended) A method comprising the following steps:

15 receiving a reference to a country;

16 selecting, based on the country reference, a set of channel-to-frequency  
17 mappings correlating channels to corresponding TV frequencies in the country;

18 receiving a channel; and

19 selecting, based on the channel, a TV frequency that maps to the channel[;].

1           All pending claims are listed below for ease of reference.

2

3           1. A television tuner comprising:

4                 a country table listing a plurality of countries;

5                 multiple channel-to-frequency mapping tables correlating channel numbers  
6                 to corresponding frequencies for associated countries in the country table, the  
7                 channel-to-frequency mapping tables being indexed by the country table so that  
8                 selection of a country in the country table references an associated channel-to-  
9                 frequency mapping table for the selected country; and

10                 a tuning device to tune to a particular frequency within the channel-to-  
11                 frequency mapping table associated with the selected country upon selection of a  
12                 corresponding channel.

13

14           2. A television tuner as recited in claim 1, wherein the country table  
15                 lists the countries according to a uniquely assigned country code.

16

17           3. A television tuner as recited in claim 1, wherein the country table  
18                 lists the countries according to an International Telecommunications Union (ITU)  
19                 code.

20

21           4. A television tuner as recited in claim 1, wherein the channel-to-  
22                 frequency mapping tables also contain a television standard for the associated  
23                 countries.

1       5. A television tuning component for a television tuning system,  
2 comprising:

3             a country table listing a plurality of countries; and  
4             multiple channel-to-frequency mapping tables correlating channel numbers  
5             to corresponding frequencies for associated countries in the country table, the  
6             channel-to-frequency mapping tables being indexed by the country table so that  
7             selection of a country in the country table references an associated channel-to-  
8             frequency mapping table for the selected country and selection of a channel in the  
9             channel-to-frequency mapping table maps to a corresponding frequency.

10  
11       6. A television tuning component as recited in claim 5, wherein the  
12 country table lists the countries according to a uniquely assigned country code.

13  
14       7. A television tuning component as recited in claim 5, wherein the  
15 country table lists the countries according to an International Telecommunications  
16 Union (ITU) code.

17  
18       8. A television tuning component as recited in claim 5, wherein the  
19 channel-to-frequency mapping tables also contain a television standard for the  
20 associated countries.

21  
22       9. A television tuning component as recited in claim 5, embodied in  
23 software as a dynamic linked library stored on a computer-readable storage  
24 medium.

1           10. A television tuner incorporating the television tuning component as  
2 recited in claim 5.

3           11. ~~Cancelled~~

4           12. (Amended) A tuner, comprising:  
5           tuner circuitry to tune to various television frequencies carrying television  
6           video signals;

7           a tuner module coupled to adjust the tuner circuitry to scan multiple  
8           channels within a particular locale for corresponding tuning frequencies, the tuner  
9           module storing the tuning frequencies for the particular locale;

10          upon transporting the tuner to a new locale, the tuner module scans  
11          multiple channels within the new local for corresponding tuning frequencies; and

12          upon transporting the tuner back to the particular locale, the tuner retrieves  
13          the stored tuning frequencies to restore operation in the particular locale.

14           13. A television tuning system comprising: .

15           tuner circuitry to tune to various television frequencies carrying television  
16           video signals;

17           video decoder circuitry coupled to receive a television video signal from the  
18           tuner circuitry and to convert the television video signal to digital video data;

19           a tuner module coupled to adjust the tuner circuitry to a particular television  
20           frequency;

21           a video decoder module to decode the digital video data according to a  
22           particular video standard;

1           wherein the tuner module has a country table listing a plurality of countries  
2 and multiple channel-to-frequency mapping tables that provide video standards  
3 and correlate channel numbers to corresponding frequencies for associated  
4 countries in the country table, the channel-to-frequency mapping tables being  
5 indexed by the country table so that selection of a country in the country table  
6 references an associated channel-to-frequency mapping table for the selected  
7 country; and

8           wherein the tuner module selects a channel-to-frequency mapping table  
9 based upon input of a particular country and outputs a video standard to the video  
10 decoder for use in decoding the digital video data, the tuner module further  
11 selecting a television frequency from the selected channel-to-frequency mapping  
12 table based upon input of a corresponding channel and outputting the selected  
13 television frequency to the tuner circuitry to cause the tuner circuitry to tune to the  
14 selected television frequency.

15  
16         14. A television tuning system as recited in claim 13, wherein the  
17 country table lists the countries according to an International Telecommunications  
18 Union (ITU) code.

19  
20         15. A television tuning system as recited in claim 13, wherein the tuner  
21 module is embodied as a dynamic linked library.

1       16. A television tuning system as recited in claim 13, further comprising  
2 a second tuner module different from the tuner module, the second tuner module  
3 being used to replace the tuner module during upgrade without replacing the  
4 tuning circuitry and the decoding circuitry.

5

6       17. A television tuning system as recited in claim 13, wherein the tuner  
7 module supports an application program interface to expose functionality of the  
8 tuner module to an application program.

9

10      18. A television tuning system as recited in claim 13, wherein the tuner  
11 module stores a set of television frequencies that map to corresponding channels  
12 within the particular country for subsequent retrieval.

13

14      19. A television tuning manager for a television tuner, the television  
15 tuning manager being implemented in software stored on a computer-readable  
16 storage medium, the television tuning device comprising:

17            a country table listing a plurality of countries;  
18            multiple channel-to-frequency mapping tables correlating channel numbers  
19 to corresponding frequencies for associated countries in the country table, the  
20 channel-to-frequency mapping tables being indexed by the country table so that  
21 selection of a country in the country table references an associated channel-to-  
22 frequency mapping table for the selected country;

23            a code segment to select a channel-to-frequency mapping table based upon  
24 input of a particular country; and

1           a code segment to output a broadcast frequency from the selected channel-  
2         to-frequency mapping table based upon input of a corresponding channel.

3

4         20. A television tuning manager as recited in claim 19, wherein the  
5         country table lists the countries according to a uniquely assigned country code.

6

7         21. A television tuning manager as recited in claim 19, wherein the  
8         country table lists the countries according to an International Telecommunications  
9         Union (ITU) code.

10

11        22. A television tuning manager as recited in claim 19, wherein the  
12        channel-to-frequency mapping tables also contain a television standard for the  
13        associated countries.

14

15        23. A television tuning manager as recited in claim 19, further  
16        comprising a code segment to store a set of broadcast frequencies that map to  
17        corresponding channels within the particular country for subsequent retrieval.

18

19        24. A television tuning manager as recited in claim 19, embodied as a  
20        software dynamic linked library stored on a computer-readable storage medium.

1           25. A television tuning manager as recited in claim 19, embodied as a  
2 computer software module that is dynamically accessible by an application  
3 program, the television tuning manager further comprising an application program  
4 interface to expose functionality of the television tuning manager to the  
5 application program.

6

7           26. An application program interface for a television tuning system, the  
8 application program interface being embodied on a computer-readable medium  
9 and having methods for performing the following functions:

10           setting a current TV channel;  
11           retrieving the current TV channel;  
12           setting a country code;  
13           retrieving the country code;  
14           setting a storage index for regional channel to frequency mappings; and  
15           retrieving the storage index.

16

17           27. An application program interface for a television tuning system, the  
18 application program interface being embodied on a computer-readable  
19 medium and having methods for performing the following functions:

20           retrieving all analog video TV standards supported by the tuning system;  
21           retrieving a current analog video TV standard in use;  
22           setting a current TV channel;  
23           retrieving the current TV channel;  
24           retrieving highest and lowest channels available;  
25           scanning for a precise signal on the current TV channel's frequency;

1 setting a country code;  
2 retrieving the country code;  
3 setting a storage index for regional channel to frequency mappings;  
4 retrieving the storage index;  
5 retrieving a number of TV sources plugged into the tuning system;  
6 setting a type of tuning system;  
7 retrieving the type of tuning system;  
8 retrieving a current video frequency; and  
9 retrieving a current audio frequency.

10  
11 28. A method comprising the following steps:

12 receiving an ITU (International Telecommunications Union) code for a  
13 particular country; and  
14 selecting, based on the ITU code, a set of TV channel-to-TV frequency  
15 mappings for use in the particular country.

16  
17 29. A method as recited in claim 28, further comprising the step of  
18 selecting, based on the ITU code, a TV standard for use in the particular country.

19  
20 30. A method as recited in claim 28, further comprising the step of  
21 storing the selected set of TV channel-to-TV frequency mappings.

22  
23 31. A computer-readable medium having computer-executable  
24 instructions for performing the steps in the method as recited in claim 28.

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1 32. (Amended) A method comprising the following steps:

2 receiving a reference to a country;

3 selecting, based on the country reference, a set of channel-to-frequency

4 mappings correlating channels to corresponding TV frequencies in the country;

5 receiving a channel; and

6 selecting, based on the channel, a TV frequency that maps to the channel.

7

8 33. A method as recited in claim 32, further comprising the step of

9 tuning to the TV frequency.

10

11 34. A method as recited in claim 32, wherein the country reference is an

12 ITU (International Telecommunications Union) code.

13

14 35. A method as recited in claim 32, further comprising the step of

15 selecting, based on the country reference, a TV standard for the country.

16

17 36. A method as recited in claim 32, further comprising the step of

18 scanning for a better quality frequency within the channel.

19

20 37. A method as recited in claim 32, wherein the step of selecting a set

21 of channel-to-frequency mappings comprises the following steps:

22 looking up the country in a country table that lists multiple countries; and

23 indexing from an entry for the country in the country table to a particular

24 channel-to-frequency table, the particular channel-to-frequency table containing

25 mappings of channel numbers to TV frequencies for the country.

1  
2       38. A method as recited in claim 37, wherein the step of selecting a TV  
3 frequency comprises the step of looking up in the particular channel-to-frequency  
4 table a TV frequency that corresponds to the channel.

5  
6       39. A computer-readable medium having computer-executable  
7 instructions for performing the steps in the method as recited in claim 32.

8  
9       40. A method comprising the following steps:  
10           configuring a tuning system for operation in a first locale by determining  
11           tuning frequencies for an associated set of channels;  
12           storing the tuning frequencies for the first locale;  
13           upon transporting the tuning system to a second locale, reconfiguring the  
14           tuning system for operation in the second locale; and  
15           upon transporting the tuning system back to the first locale, retrieving the  
16           stored tuning frequencies to restore operation in the first locale.

17  
18       41. A method as recited in claim 40, wherein the configuring step  
19           comprises the step of scanning for optimal tuning frequencies for the associated  
20           set of channels.

21  
22       42. A computer-readable medium having computer-executable  
23           instructions for performing the steps in the method as recited in claim 40.